

Complete this section for **each** of the wastewater treatment plant's land treatment outfalls.

## II. WASTEWATER CHARACTERIZATION, TREATMENT, and DISPOSAL

<b>B. SPECIFIC OUTFALL INFORMATION</b>	
<b>Land Treatment System Discharge Information for Outfall _____</b>	
1. Type of Land Treatment System	
2. Location of Land Treatment System Quarter-quarter Section _____, Quarter Section _____, Section _____, Township _____, Range _____	
3. Seasonal or Intermittent Discharges  <input type="checkbox"/> Discharge is year round.  <input type="checkbox"/> Discharge is seasonal (specify)  From: _____ Through: _____ From: _____ Through: _____  <input type="checkbox"/> Discharge is intermittent (Describe the frequency, duration and flow rate of each discharge occurrence, except for storm water runoff and spillage or leaks)	
4. Size of Land Treatment System _____ Acres	
5. Schematic Diagram of Land Treatment System - Attach a schematic diagram of the land treatment system.	
6. Effluent Flow Monitoring  Flow Monitoring Type & Age _____  Flow Monitoring Location _____  Effluent Composite Sample Location _____  Effluent Grab Sample Location _____	
7. Management Plan - Do you have an approved management plan for the operation of the land treatment system?  <input type="checkbox"/> No. (continue to the next section of the application)  <input type="checkbox"/> Yes. If yes, provide the information requested below.  When did the Department approve the management plan? _____  Have any changes occurred in your land treatment system or in the operation of the system since the management plan was approved?  <input type="checkbox"/> No. (continue to the next section of the application)  <input type="checkbox"/> Yes. If yes, describe the changes below.	

# INSTRUCTIONS

## Land Treatment System Discharge Information

You must complete this section for each land treatment system outfall. If you have more than one such outfall, your application packet should contain a copy for each outfall identified with an outfall number. If you have a land treatment system discharge that has not been previously permitted, you should contact the Department for another copy of this form. Or you may make a copy of one of the forms you received before filling it out, change the outfall identifier number on the copy and complete the form with the new outfall information.

**Item 1. Type of Land Treatment System** - Identify the type of land treatment system. The types of land treatment are:

Absorption Ponds (Seepage Cells) - These are treatment ponds that are designed to infiltrate wastewater into the unsaturated soil zone for treatment and disposal.

Overland Flow - These are land treatment systems in which the applied wastewater flows uniformly down grassy sloped terrain having very low permeability soils and is collected at the bottom of the slope for subsequent discharge.

Spray Irrigation - These are either fixed or traveling spray devices that distribute wastewater onto vegetated fields for treatment and disposal. These are not vehicle hauled wastes. A spray irrigation system is usually dedicated to a specific field and is usually served by a pipeline that transports the wastewater to be irrigated.

Ridge and Furrow - This type of treatment system relies on above ground disposal into a set of infiltration cells that may be dosed and rested as needed. Each cell is partitioned into several furrows by vegetated ridges.

Subsurface Soil Absorption - This type of treatment is designed as a series of underground perforated pipes that distribute wastewater for infiltration and soil treatment. A subsurface soil absorption system may be divided into cells that may be dosed and rested.

**Item 2. Location of Land Treatment System** - Provide the quarter-quarter section (NE, NW, SE or SW), quarter section (NE, NW, SE or SW), section (1 through 36), township (1 through 53 and always north, 30 N for example) and range (1 through 30 east or 1 through 20 west, 3 E for example) of the tract of land on which the land treatment system is located. The requested location description is similar to the legal description of a tract of land and can be found in a plat book of the county in which the land treatment system is located.

**Item 3. Seasonal or Intermittent Discharges** - A discharge is seasonal if it occurs only during part of the year. For seasonal discharges, provide the period from starting month to ending month during which wastewater is discharged.

A discharge is intermittent unless it occurs without interruption during the operating hours of the facility. Exceptions include interruptions caused by infrequent shutdowns for maintenance, process changes or other similar activities and spillage or leaks. For intermittent discharges, describe the frequency of discharge and the duration and volume of each discharge. Provide the description on a separate sheet of paper.

**Item 4. Size of Land Treatment System** - Provide the area in acres that the land treatment system physically covers. It may be necessary to subdivide the area into different components such as lagoon area, ridge and furrow area, etc. to adequately describe the system.

**Item 5. Schematic Diagram of the Land Treatment System** - Include a line drawing of the entire system and its components. The drawing size should not exceed 11 x 17 inches. If necessary, subdivide the drawing into smaller individual drawings, but include a master overview that has a key to all the sub-drawings. Do not include blueprints that exceed the maximum size. Include all areal dimensions and appropriate elevations in the drawing based on a five foot contour interval. Show the relationship of the system to all buildings within 500 feet and the nearest public road. Include all streams and wetlands that may be within the area of the system. Include all locations where samples are collected and all monitoring wells.

**Item 6. Effluent Flow Monitoring and Sampling** - Identify the flow monitoring type as a "V" notch weir, Parshall flume, magnetic flow meter, etc. and provide its age, location in relation to other units and date of last calibration. Indicate the location of all composite sampling devices and all locations where effluent grab samples will be taken.

**Item 7. Management Plan** - Indicate whether or not a management plan for the land treatment system has been prepared and approved by the Department. If one has been approved, provide the date the plan was approved by the Department and describe any changes in the land treatment system or in the operation of the system that have occurred since the plan was approved. Examples of changes include an expansion of the system, an increase in the amount of wastewater discharged to the system, production process changes that change the characteristics of the wastewater that is discharged to the system, etc.